

## ABSTRACT

The present invention provides methods of using cord blood and cord blood-derived stem cells in high doses to treat various conditions, diseases and disorders. The high-dose cord blood and cord blood-derived stem cells have a multitude of uses and applications, 5 including but not limited to, therapeutic uses for transplantation and treatment and prevention of disease, and diagnostic and research uses. In particular, the cord blood or cord blood-derived stem cells are delivered in high doses, *e.g.*, at least 3 billion nucleated cells per treatment, where treatment may comprise a single or multiple infusions. The invention also provides for the use of cord blood or cord blood-derived stem cells from 10 multiple donors without the need for HLA typing.